

What is claimed is:

1. A bactericide against *Streptococcus mutans* and *Streptococcus sobrinus* comprising any one of the following proteins (1) to (3):

(1) a protein shown by the amino acid sequence of SEQ ID NO: 1 or a protein having the amino acid sequence derived therefrom in which one or more amino acids are deleted, substituted or added and having a lytic activity against *Streptococcus mutans* or *Streptococcus sobrinus*.

(2) a protein having a 100±10 kDa band of lysed bacteria in a zymography containing killed *Streptococcus mutans*.

(3) a protein obtained from cultured cells transformed by DNA comprising nucleotide sequence of SEQ ID NO: 2 or DNA encoding said protein (1).

2. A preventive agent of tooth decay, a therapeutic agent of tooth decay, a toothpaste, an oral cavity cleaner or a preventive gum of tooth decay, containing the bactericide of claim 1.

3. A method for killing selectively *Streptococcus mutans* and *Streptococcus sobrinus* using any one of the following proteins (1) to (3):

(1) a protein shown by the amino acid sequence of SEQ ID NO: 1 or a protein having the amino acid sequence derived therefrom in which one or more amino acids are deleted, substituted or added and having a lytic activity against *Streptococcus mutans* or *Streptococcus sobrinus*.

(2) a protein having a 100±10 kDa band of lysed bacteria in a zymography containing killed *Streptococcus mutans*.

(3) a protein obtained from cultured cells transformed by DNA comprising nucleotide sequence of SEQ ID NO: 2 or DNA encoding said protein (1).